=> d his ful

FILE 'HCAPLUS' ENTERED AT 10:26:02 ON 14 JUN 2005 E KOTANI MAYUMI/AU 19 SEA ABB=ON "KOTANI MAYUMI"/AU L1E FUJITA AKIHITO/AU L218 SEA ABB=ON "FUJITA AKIHITO"/AU E MATSUMOTO MOTONOBU/AU 19 SEA ABB=ON "MATSUMOTO MOTONOBU"/AU L3 6 SEA ABB=ON L1 AND L2 AND L3 L4 SELECT RN L4 1-1 FILE 'REGISTRY' ENTERED AT 10:27:59 ON 14 JUN 2005 6 SEA ABB=ON (117-39-5/BI OR 153-18-4/BI OR 480-10-4/BI OR L5520-18-3/BI OR 528-48-3/BI OR 529-44-2/BI) FILE 'HCAPLUS' ENTERED AT 10:28:12 ON 14 JUN 2005 5 SEA ABB=ON L4 AND L5 L613 TERMS L7 ANALYZE L6 1-1 CT : 37 SEA ABB=ON L1 OR L2 OR L3 OR L4 6 SEA ABB=ON L8 AND ?ASTRAGALIN? L8 L9 SELECT RN L9 1-6 FILE 'REGISTRY' ENTERED AT 10:35:30 ON 14 JUN 2005 L10 17 SEA ABB=ON (480-10-4/BI OR 89-78-1/BI OR 117-39-5/BI OR 153-18-4/BI OR 50-99-7/BI OR 520-18-3/BI OR 528-48-3/BI OR 529-44-2/BI OR 57-48-7/BI OR 585-86-4/BI OR 585-88-6/BI OR 59-23-4/BI OR 63-42-3/BI OR 64-17-5/BI OR 64519-82-0/BI OR 69-65-8/BI OR 7732-18-5/BI) T.11 0 SEA ABB=ON L9 AND L10 FILE 'HCAPLUS' ENTERED AT 10:35:49 ON 14 JUN 2005 6 SEA ABB=ON L9 AND L10 L12FILE 'REGISTRY' ENTERED AT 10:40:56 ON 14 JUN 2005 L13 1 SEA ABB=ON 480-10-4/RN FILE 'HCAPLUS' ENTERED AT 10:41:07 ON 14 JUN 2005 1468 SEA ABB=ON L13 OR ?ASTRAGALIN? L14L15 9 SEA ABB=ON L14 AND (?ALLERGY? OR ?POLLINOSIS?) FILE 'MEDLINE, CANCERLIT, JICST-EPLUS, FEDRIP, PASCAL, BIOSIS, EMBASE, BIOTECHNO, JAPIO, ESBIOBASE, SCISEARCH' ENTERED AT 10:42:13 ON 14 JUN 2005 4 DUP REMOV L16 (3 DUPLICATES REMOVED) 4 Cels from above d.b.'s

APLUS' ENTERED AT 10:43:01 ON 14 JUN 2005
5 SEA ABB=ON L15 AND (PRD<20000324 OR PD<20000324) 5 Cels from

CA Plus L16 7 SEA ABB=ON L15 L17 FILE 'HCAPLUS' ENTERED AT 10:43:01 ON 14 JUN 2005 L18 FILE HCAPLUS FILE COVERS 1907 - 14 Jun 2005 VOL 142 ISS 25

FILE LAST UPDATED: 13 Jun 2005 (20050613/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUN 2005 HIGHEST RN 852200-37-4 DICTIONARY FILE UPDATES: 13 JUN 2005 HIGHEST RN 852200-37-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

FILE MEDLINE

FILE LAST UPDATED: 12 JUN 2005 (20050612/UP). FILE COVERS 1950 TO DATE.

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

FILE CANCERLIT

FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

FILE JICST-EPLUS

FILE COVERS 1985 TO 13 JUN 2005 (20050613/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE FEDRIP

FILE COVERS CURRENT DATA. LAST UPDATE: 26 APR 2005 (20050426/ED)

FILE PASCAL

FILE LAST UPDATED: 6 JUN 2005 <20050606/UP> FILE COVERS 1977 TO DATE.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 10 June 2005 (20050610/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE

FILE COVERS 1974 TO 9 Jun 2005 (20050609/ED)

FILE BIOTECHNO

FILE LAST UPDATED: 7 JAN 2004 <20040107/UP>

FILE COVERS 1980 TO 2003.

FILE JAPIO

FILE LAST UPDATED: 8 JUN 2005 <20050608/UP>

FILE COVERS APR 1973 TO FEBRUARY 24, 2005

FILE ESBIOBASE

FILE LAST UPDATED: 14 JUN 2005 <20050614/UP>

FILE COVERS 1994 TO DATE.

FILE SCISEARCH FILE COVERS 1974 TO 9 Jun 2005 (20050609/ED)

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=> d que stat 118
             1 SEA FILE=REGISTRY ABB=ON 480-10-4/RN
L13
          1468 SEA FILE=HCAPLUS ABB=ON L13 OR ?ASTRAGALIN?
L14
            9 SEA FILE=HCAPLUS ABB=ON L14 AND (?ALLERGY? OR ?POLLINOSIS?)
L15
             5 SEA FILE=HCAPLUS ABB=ON L15 AND (PRD<20000324 OR PD<20000324)
L18
=> d ibib abs hitstr 118 1-5
L18 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:706991 HCAPLUS
DOCUMENT NUMBER:
                        133:271717
TITLE:
                        Compositions for preventing and treating type I
                        allergy
INVENTOR(S):
                        Kotani, Mayumi; Fujita, Akihito; Matsumoto, Motonobu
PATENT ASSIGNEE(S):
                        Sunstar Inc., Japan; Uni-Sunstar B.V.
                        PCT Int. Appl., 29 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                        KIND
                               DATE
                                         APPLICATION NO.
                                                                 DATE
     _____
                        ----
                               _____
                                          _____
                                                                 _____
     WO 2000057888
                         A1
                               20001005
                                        WO 2000-JP1801
                                                                 20000324 <--
        W: CA, JP, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE
     CA 2368574
                         AA
                               20001005
                                           CA 2000-2368574
                                                                 20000324 <--
                        A1
                               20020116
     EP 1172109
                                          EP 2000-911330
                                                                 20000324 <--
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
PRIORITY APPLN. INFO.:
                                           JP 1999-84395
                                                              A 19990326 <--
                                           JP 1999-123633
                                                             A 19990430 <--
                                           JP 1999-173731
                                                             A 19990621 <--
                                           WO 2000-JP1801
                                                              W 20000324
AB
     Disclosed are food compns. for preventing type I allergy which
     contain as the active ingredient kaempferol-3-glucoside; medicinal compns.
     for preventing and treating type I allergy which contain as the
     active ingredient kaempferol-3-glucoside; and skin prepns. for external
     use for preventing and treating type I allergy which contain as
     the active ingredient kaempferol-3-glucoside.
     480-10-4, Kaempferol-3-glucoside
IT
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (kaempferol glucoside for preventing and treating type I
        allergy)
     480-10-4 HCAPLUS
RN
CN
     4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-
     hydroxyphenyl) - (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

3

ACCESSION NUMBER:

2000:572079 HCAPLUS

DOCUMENT NUMBER:

134:141496

TITLE:

Persimmon leaf extract and astragalin

inhibit development of dermatitis and IgE elevation in

NC/Nga mice

AUTHOR (S):

Kotani, Mayumi; Matsumoto, Motonobu; Fujita, Akihito; Higa, Shinji; Wang, Way; Suemura, Masaki; Kishimoto,

Tadamitsu; Tanaka, Toshio

CORPORATE SOURCE:

Research and Development Center, Sunstar

SOURCE:

Incorporation, Osaka, 565-0871, Japan Journal of Allergy and Clinical Immunology (

2000), 106(1, Pt. 1), 159-166 CODEN: JACIBY; ISSN: 0091-6749

PUBLISHER:

Mosby, Inc.

DOCUMENT TYPE: LANGUAGE: Journal English

The authors previously found that persimmon leaf extract contains antiallergic substances that inhibit histamine release by human basophilic cell line KU812 in response to cross-linkage of FcaRI. The purpose here was to identify substances in the persimmon leaf extract that are responsible for the effect and to examine their in vivo effects on the allergic mouse model. HPLC anal. of persimmon leaf extract was done to measure its content. Inhibitory activity of persimmon leaf extract or its major constituent astragalin on the histamine release by KU812 cells was examined To investigate the effects of these substances in vivo, models of passive cutaneous anaphylaxis and atopic dermatitis mice (NC/Nga) were used. Persimmon leaf extract or astragalin inhibited histamine release from KU812 in response to cross-linkage of FceRI. Oral intake of both substances dose dependently inhibited passive cutaneous reactions. Moreover, oral administration of these substances to NC/Nga atopic dermatitis model mice led to suppression of the development of dermatitis, scratching behavior, and serum IgE elevation. Histol. analyses revealed that infiltration of inflammatory cells, especially degranulated mast cells, thickening of the epidermis, and prominent hyperkeratosis, were reduced. Immunol. studies showed that the

capacity of spleen T cells to produce both IL-4 and IL-13, but not IFN- γ , was downregulated by oral intake of these substances. This study thus demonstrates a novel activity of **astragalin** and the dramatic effect of persimmon leaf extract and **astragalin** on atopic dermatitis model mice.

IT 480-10-4, Astragalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(persimmon leaf extract and astragalin inhibit development of dermatitis and IgE elevation in mouse model)

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:196006 HCAPLUS

DOCUMENT NUMBER: 131:394

TITLE: Anti-inflammatory activity of the flavonoid components

of Lonicera japonica

AUTHOR(S): Moon, Tae Chul; Park, Jeong Ok; Chung, Kwang Won; Son,

Keun Ho; Kim, Hyun Pyo; Kang, Sam Sik; Chang, Hyeun

Wook; Chung, Kyu Cham

CORPORATE SOURCE: Coll. Pharmacy, Yeungnam Univ., S. Korea

SOURCE: Yakhak Hoechi (1999), 43(1), 117-123

CODEN: YAHOA3; ISSN: 0513-4234

PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: Journal LANGUAGE: Korean

AB Because of the potent effects of lipid mediators such as prostaglandins (PGs), leukotrienes (LTs) and platelet-activating factor (PAF) on a variety of cells and tissues, they are considered as major contributors to the process leading to inflammation and allergy. To pursue the mechanisms of anti-inflammatory activity of Lonicera japonica, we tested inhibitory effects of 7 flavonoids from Lonicera japonica on arachidonic

acid cascade related enzymes, such as inflammatory phospholipase A2, cyclooxygenase-1 and 2, 5-lipoxygenase, in bone marrow derived mast cells (BMMC), and lyso PAF-acetyltransferase in rat spleen microsomes. Anti-inflammatory activities of Lonicera japonica are thought to be attributed at least in part to the inhibition of arachidonic acid cascade-related enzymes by flavonoids such as apigenin, luteolin and quercetin.

IT 480-10-4, Astragalin

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(anti-inflammatory activity of Lonicera japonica flavonoids)

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:342646 HCAPLUS

DOCUMENT NUMBER: 125:49208

TITLE: Antianaphylactic effects of the principal compounds

from the white petals of Impatiens balsamina L.

AUTHOR(S): Fukumoto, Hisae; Yamaki, Masae; Isoi, Koichiro;

Ishiguro, Kyoko

CORPORATE SOURCE: School Pharmaceutical Sciences, Mukogawa Women's

University, Nishinomiya, 663, Japan

SOURCE: Phytotherapy Research (1996), 10(3), 202-206

CODEN: PHYREH; ISSN: 0951-418X

PUBLISHER: Wiley DOCUMENT TYPE: Journal

LANGUAGE: Journal English

AB Several flavonols and naphthoquinones were isolated from a 35% ethanol extract (IB) of the white petals of I. balsamina. The antianaphylactic effects of the main compds. were investigated using a murine immediately hypersensitivity reaction system induced by hen egg-white lysozyme (HEL). The active exts. and phenolic compds. in IB inhibited significantly both the fatal anaphylactic shock and heterologous PCA reaction.

IT 480-10-4

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(antianaphylactic effects of flavonols and naphthoquinones from Impatiens balsamina petals)

RN 480-10-4 HCAPLUS

4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-CN hydroxyphenyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1992:207493 HCAPLUS

DOCUMENT NUMBER:

116:207493

TITLE:

Biologically active constituents of Magnolia

salicifolia: inhibitors of induced histamine release

from rat mast cells

AUTHOR (S):

Tsuruga, Tomoko; Ebizuka, Yutaka; Nakajima, Junko; Chun, Yiu To; Noguchi, Hiroshi; Iitaka, Yoichi;

Sankawa, Ushio

CORPORATE SOURCE:

Fac. Pharm. Sci., Univ. Tokyo, Tokyo, 113, Japan

SOURCE:

Chemical & Pharmaceutical Bulletin (1991),

39(12), 3265-71

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The exts. of the flower buds of M. salicifolia showed remarkable antiallergy effects in passive cutaneous anaphylaxis (PCA) test. The bioactive constituents of this medicinal drug were isolated by monitoring their activities with an in vitro bioassay system measuring inhibitory effects on induced histamine release from rat mast cells. Of the ten isolated compds. magnosalicin is a new compound of neolignan structure. In addition to the isolated compds. samples of coumarins and lignans were evaluated for biol. activities with the in vitro bioassay.

ΤT 480-10-4

RL: BIOL (Biological study)

(allergy and histamine release inhibition by, from Magnolia salicifolia)

480-10-4 HCAPLUS RN

4H-1-Benzopyran-4-one, 3-(β -D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

=> d que stat 117

L13 1 SEA FILE=REGISTRY ABB=ON 480-10-4/RN

L14 1468 SEA FILE=HCAPLUS ABB=ON L13 OR ?ASTRAGALIN?

L15 9 SEA FILE=HCAPLUS ABB=ON L14 AND (?ALLERGY? OR ?POLLINOSIS?)

L16 7 SEA L15

L17 4 DUP REMOV L16 (3 DUPLICATES REMOVED)

=> d ibib abs 117 1-4

L17 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:37444 BIOSIS DOCUMENT NUMBER: PREV200400038080

TITLE: Effects on blood pressure decrease in response to PAF of

Impatiens textori MIQ.

AUTHOR(S): Ueda, Yoshimi; Oku, Hisae; Iinuma, Munekazu; Ishiguro,

Kyoko [Reprint Author]

CORPORATE SOURCE: School of Pharmaceutical Sciences, Mukogawa Women's

University, 11-68 Koshien Kyuban-cho, Nishinomiya,

663-8179, Japan

ishiguro@mwu.mukogawa-u.ac.jp

SOURCE: Biological & Pharmaceutical Bulletin, (October 2003) Vol.

26, No. 10, pp. 1505-1507. print.

ISSN: 0918-6158.

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 7 Jan 2004

Last Updated on STN: 7 Jan 2004

AB A 35% EtOH extract of flowers of Impatiens textori MIQ. showed an inhibitory effect on blood pressure decrease in response to platelet activating factor (PAF) measured with a blood pressure monitoring system. Bioassay-guided fractionation of the 35% EtOH extract (IT) led to isolation of the flavones apigenin (1) and luteolin (3), which significantly inhibited blood pressure decrease in response to PAF. Their compounds and apigenin 7-glucoside (2), chrysoeriol (4), quercetin (5), quercetin 3-glucoside (6), kaempferol (7), kaempferol 3-glucoside (8) and kaempferol 3-rhamnosyldiglucoside (9) were also isolated from the flowers of I. textori for the first time. This study revealed that the flowers of I textori might be a possible anti-allergy agent.

L17 ANSWER 2 OF 4 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED. on STN DUPLICATE 1

ACCESSION NUMBER:

2003-0525625 PASCAL

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reserved.

TITLE (IN ENGLISH):

Fisetin, a flavonol, inhibits T.sub.H2-type cytokine

production by activated human basophils

AUTHOR:

HIGA Shinji; HIRANO Toru; KOTANI Mayumi; MATSUMOTO Motonobu; FUJITA Akihito; SUEMURA Masaki; KAWASE

Ichiro; TANAKA Toshio

CORPORATE SOURCE:

Department III of Internal Medicine, Osaka University Medical School, Osaka, Japan; Research & Development Center, Sunstar Incorporation, Osaka, Japan; Nissay

Hospital, Osaka, Japan

SOURCE:

Journal of allergy and clinical immunology, (2003),

111(6), 1299-1306, 36 refs. ISSN: 0091-6749 CODEN: JACIBY

DOCUMENT TYPE:

Journal

BIBLIOGRAPHIC LEVEL:

Analytic

COUNTRY:

United States

LANGUAGE:

AVAILABILITY: INIST-2059, 354000118452040200

English

AN 2003-0525625 PASCAL

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AB Background: Activation of mast cells and basophils through allergen stimulation releases chemical mediators and synthesizes cytokines. Among these cytokines, IL-4, IL-13, and IL-5 have major roles in allergic inflammation. Objective: We sought to determine the potency of flavonoids (astragalin, fisetin, kaempferol, myricetin, quercetin, and rutin) for the inhibition of cytokine expression and synthesis by human basophils. Methods: The inhibitory effect of flavonoids on cytokine expression by stimulated KU812 cells, a human basophilic cell line, and freshly purified peripheral blood basophils was measured by means of semiquantitative RT-PCR and ELISA assays. The effects of flavonoids on transcriptional activation of the nuclear factor of activated T cells were assessed by means of electrophoretic mobility shift assays. Results: Fisetin suppressed the induction of IL-4, IL-13, and IL-5 mRNA expression by A23187-stimulated KU812 cells and basophils in response to cross-linkage of the IgE receptor. Fisetin reduced IL-4, IL-13, and IL-5 synthesis (inhibitory concentration of 50% [IC.sub.5.sub.0] = 19.4, 17.7, and 17.4 μ mol/L, respectively) but not IL-6 and IL-8 production by KU812 cells. In addition, fisetin inhibited IL-4 and IL-13 synthesis by anti-IgE antibody-stimulated human basophils (IC.sub.5.sub.0 = 5.1 and 6.2 µmol/L, respectively) and IL-4 synthesis by allergen-stimulated basophils from allergic patients (IC.sub.5.sub.0 = 4.8 \(\mu mol/L \)). Among the flavonoids examined, kaempferol and quercetin showed substantial inhibitory activities in cytokine expression but less so than those of fisetin. Fisetin inhibited nuclear localization of nuclear factor of activated T cells c2 by A23187-stimulated KU812 cells. Conclusion: These results provide evidence of a novel activity of the flavonoid fisetin that suppresses the expression of T. sub. H2-type cytokines (IL-4, IL-13, and IL-5) by basophils.

L17 ANSWER 3 OF 4 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED. on

STN

ACCESSION NUMBER:

2002-0505264 PASCAL

COPYRIGHT NOTICE:

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reserved.

TITLE (IN ENGLISH):

Oral administration of persimmon leaf extract

ameliorates skin symptoms and transepidermal water

loss in atopic dermatitis model mice, NC/Nga

AUTHOR:

SOURCE:

MATSUMOTO M.; KOTANI M.; FUJITA A.; HIGA S.; KISHIMOTO

T.; SUEMURA M.; TANAKA T.

CORPORATE SOURCE:

Research and Development Center, Sunstar Incorporation, Osaka, Japan; Department III of Internal Medicine, Osaka University Medical School, 2-2 Yamada-ota, Suita City, Osaka 565-0871, Japan British journal of dermatology: (1951), (2002),

1.4

146(2), 221-227, 16 refs. ISSN: 0007-0963 CODEN: BJDEAZ

DOCUMENT TYPE:

Journal Analytic

BIBLIOGRAPHIC LEVEL:

United Kingdom

COUNTRY: LANGUAGE:

English

AVAILABILITY:

INIST-1043, 354000104416740070

AN 2002-0505264 PASCAL

CP Copyright .COPYRGT. 2002 INIST-CNRS. All rights reserved.

AB Background We have previously shown that persimmon leaf extract and its major flavonoid constituent, astragalin, inhibited histamine

release by basophils and that oral administration of these substances prior to the onset into an atopic dermatitis (AD) model mouse, NC/Nga, prevented development of dermatitis. Objectives This study was designed to assess the clinical therapeutic effect of persimmon leaf extract and astragalin in NC/Nga mice suffering from dermatitis and the dose-response preventive effects of persimmon leaf extract on dermatitis and transepidermal water loss (TEWL). Methods The efficacy of persimmon leaf extract or astragalin in NC/Nga mice was judged by measurement of skin severity, scratching behaviour, serum IgE levels or TEWL. Results Oral administration of persimmon leaf extract (250 mg kg.sup.-.sup.1) or astragalin (1.5 mg kg.sup.-.sup.1) for 4 weeks into NC/Nqa mice with overt dermatitis resulted in a decrease in the severity of the condition. The preventive effect of persimmon leaf extract on the dermatitis was dose-dependent and continuous intake of persimmon leaf extract significantly decreased its onset and development. In addition, TEWL was also suppressed at a persimmon leaf extract dose of 250 mg kg.sup.-.sup.1. No significant adverse reaction by these substances could be observed. Conclusions These observations suggest that persimmon leaf extract or the flavonoid astragalin may be alternative substances for the management of AD.

L17 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:377311 BIOSIS PREV200000377311

TITLE:

Persimmon leaf extract and astragalin inhibit

development of dermatitis and IgE elevation in NC/Nga mice. AUTHOR (S): Kotani, Mayumi; Matsumoto, Motonobu; Fujita, Akihito; Higa,

Shinji; Wang, Way; Suemura, Masaki; Kishimoto, Tadamitsu;

Tanaka, Toshio [Reprint author]

CORPORATE SOURCE:

Department III of Internal Medicine, Osaka University

Medical School, 2-2 Yamada-oka, Suita City, Osaka,

565-0871, Japan

SOURCE:

Journal of Allergy and Clinical Immunology, (July, 2000)

Vol. 106, No. 1 Part 1, pp. 159-166. print.

CODEN: JACIBY. ISSN: 0091-6749.

DOCUMENT TYPE:

Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 6 Sep 2000

Last Updated on STN: 8 Jan 2002

Background: We previously found that persimmon leaf extract contains AB antiallergic substances that inhibit histamine release by human basophilic cell line KU812 in response to cross-linkage of FcepsilonRI. Objectives: The purpose of this study was to identify substances in the persimmon leaf extract that are responsible for the effect and to examine their in vivo effects on the allergic mouse model. Methods: HPLC analysis of persimmon leaf extract was done to measure its content. Inhibitory activity of persimmon leaf extract or its major constituent of flavonoids (astragalin) on the histamine release by KU812 cells was examined. To investigate the effects of these substances in vivo, models of passive cutaneous anaphylaxis and atopic dermatitis mice (NC/Nga) were used. Results: Persimmon leaf extract or astragalin inhibited histamine release from KU812 in response to cross-linkage of FcepsilonRI. Oral intake of both substances dose dependently inhibited passive cutaneous reactions. Moreover, oral administration of these substances to NC/Nga atopic dermatitis-model mice led to a striking suppression of the development of dermatitis, scratching behavior, and serum IqE elevation. Histologic analyses revealed that infiltration of inflammatory cells, especially degranulated mast cells, thickening of the epidermis, and prominent hyperkeratosis, were significantly reduced. Immunologic studies

showed that the capacity of spleen T cells to produce both IL-4 and IL-13, but not IFN-gamma, was downregulated by means of oral intake of these substances. Conclusion: This study demonstrates a novel activity of astragalin and the dramatic effect of persimmon leaf extract and astragalin on atopic dermatitis-model mice.

=> d 113

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

```
L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
     480-10-4 REGISTRY
RN
     Entered STN: 16 Nov 1984
ED
     4H-1-Benzopyran-4-one, 3-(\beta-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-
     hydroxyphenyl) - (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Astragalin (6CI, 7CI, 8CI)
OTHER NAMES:
     3-Glucosylkaempferol
CN
     4',5,7-Trihydroxyflavone 3-\beta-D-glucopyranoside
CN
     Astragaline
CN
CN
     K 5
     Kaempferol 3-β-D-glucopyranoside
CN
CN
     Kaempferol 3-\beta-D-glucoside
     Kaempferol 3-glucoside
CN
CN
     Kaempferol 3-0-\beta-D-glucopyranoside
CN
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FS
     STEREOSEARCH
     123474-17-9, 121136-61-6, 61247-96-9, 136529-58-3, 27661-62-7, 100569-53-7
DR
MF
     C21 H20 O11
CI
     COM
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
       CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, NAPRALERT, NIOSHTIC, RTECS*,
       TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
```

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1370 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1375 REFERENCES IN FILE CAPLUS (1907 TO DATE)

19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Entered STN: 16 Nov 1984

Vanik 09/937,365

14/06/2005

=> d ibib abs ind hitstr l12 1-6

L12 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:495289 HCAPLUS

DOCUMENT NUMBER: 140:22825

CORPORATE SOURCE:

TITLE: Fisetin, a flavonol, inhibits TH2-type cytokine

production by activated human basophils

AUTHOR(S): Higa, Shinji; Hirano, Toru; Kotani, Mayumi;

Matsumoto, Motonobu; Fujita, Akihito

; Suemura, Masaki; Kawase, Ichiro; Tanaka, Toshio Department III of Internal Medicine, Osaka University

Medical school, Osaka, 565-0871, Japan

SOURCE: Journal of Allergy and Clinical Immunology (2003),

111(6), 1299-1306

CODEN: JACIBY; ISSN: 0091-6749

PUBLISHER: Mosby, Inc. DOCUMENT TYPE: Journal LANGUAGE: English

Background: Activation of mast cells and basophils through allergen ABstimulation releases chemical mediators and synthesizes cytokines. Among these cytokines, IL-4, IL-13, and IL-5 have major roles in allergic inflammation. Objective: We sought to determine the potency of flavonoids (astragalin, fisetin, kaempferol, myricetin, quercetin, and rutin) for the inhibition of cytokine expression and synthesis by human basophils. Methods: The inhibitory effect of flavonoids on cytokine expression by stimulated KU812 cells, a human basophilic cell line, and freshly purified peripheral blood basophils was measured by means of semiquant. RT-PCR and ELISA assays. The effects of flavonoids on transcriptional activation of the nuclear factor of activated T cells were assessed by means of electrophoretic mobility shift assays. Results: Fisetin suppressed the induction of IL-4, IL-13, and IL-5 mRNA expression by A23187-stimulated KU812 cells and basophils in response to cross-linkage of the IgE receptor. Fisetin reduced IL-4, IL-13, and IL-5 synthesis (inhibitory concentration of 50% [IC50] = 19.4, 17.7, and 17.4 µmol/L, resp.) but not IL-6 and IL-8 production by KU812 cells. In addition, fisetin inhibited IL-4 and IL-13 synthesis by anti-IgE antibody-stimulated human basophils (IC50 = 5.1 and $6.2 \mu mol/L$, resp.) and IL-4 synthesis by allergen-stimulated basophils from allergic patients (IC50 = 4.8 µmol/L). Among the flavonoids examined, kaempferol and quercetin showed substantial inhibitory activities in cytokine expression but less so than those of fisetin. Fisetin inhibited nuclear localization of nuclear factor of activated T cells c2 by A23187-stimulated KU812 cells. Conclusion: These results provide evidence of a novel activity of the flavonoid fisetin that suppresses the expression of TH2-type cytokines (IL-4, IL-13, and IL-5) by basophils.

CC 1-7 (Pharmacology)

ST antiallergic fisetin flavonoid cytokine basophil

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (NFAT (nuclear factor of activated T-cell); fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils)

IT mRNA

RL: BSU (Biological study, unclassified); BIOL (Biological study) (cytokines; fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils)

IT Allergy inhibitors

Basophil Human Mast cell

T cell (lymphocyte) Transcription, genetic (fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils) IT Cytokines Interleukin 13 Interleukin 4 Interleukin 5 RL: BSU (Biological study, unclassified); BIOL (Biological study) (fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils) ΙT Flavonoids RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils) IT 117-39-5, Quercetin 153-18-4, Rutin 480-10-4, Astragalin 520-18-3, Kaempferol 528-48-3, Fisetin 529-44-2, Myricetin RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils) IT 117-39-5, Quercetin 153-18-4, Rutin 480-10-4, Astragalin 520-18-3, Kaempferol 528-48-3, Fisetin 529-44-2, Myricetin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (fisetin, a flavonol, inhibits TH2-type cytokine production by activated human basophils)
117-39-5 HCAPLUS
4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy- (9CI)

HO

(CA INDEX NAME)

RN

CN

RN 153-18-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-[[6-0-(6-deoxy-α-L-mannopyranosyl)-β-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy- (9CI) (CN INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 520-18-3 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 528-48-3 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-3,7-dihydroxy- (9CI) (CA INDEX NAME)

RN 529-44-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-(3,4,5-trihydroxyphenyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Ext. 22524

L12 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

36

ACCESSION NUMBER:

2002:761295 HCAPLUS

DOCUMENT NUMBER:

137:246873

TITLE:

Promotion of bioavailability of astragalin

in leaf extract of persimmon

INVENTOR(S):

Fujita, Akito; Kotani, Mayumi; Miyao, Manabu

PATENT ASSIGNEE(S):

Sunstar, Inc., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002291441	A2	20021008	JP 2001-98148	20010330
PRIORITY APPLN. INFO.:			JP 2001-98148	20010330

AB The bioavailability of astragalin in plant extract, especially leaf extract of persimmon, is promoted with sugar selected from fructose, galactose, lactose, and glucose. The sugar-added astragalin leaf extract of

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persimmon is mixed with lemon, menthol, peppermint, and spearmint aroma to
     prepare health food.
IC
     ICM A23L001-30
     ICS A23F003-14; A23G003-00; A23L002-52; A23L002-38; A61P009-12;
          A61P037-08; A61K031-352; A61K035-78; A61K047-26
     17-14 (Food and Feed Chemistry)
CC
     Section cross-reference(s): 63
ST
     astragalin persimmon leaf ext bioavailability sugar; health food
     persimmon leaf ext astragalin bioavailability; aroma health food
     persimmon astragalin leaf ext
IT
     Mentha piperita
     Mentha spicata
        (aroma of; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Embryophyta
        (astragalin-containing extract of; stabilization of
        astragalin in leaf extract of persimmon)
IT
     Citrus limon
        (essence; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Drug delivery systems
        (granules; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Beverages
        (health; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Candy
     Diospyros
     Health food
     Odor and Odorous substances
     Powders
        (stabilization of astragalin in leaf extract of persimmon)
IT
     Carbohydrates, biological studies
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
IT
     Drug delivery systems
        (tablets, chewable; stabilization of astragalin in leaf extract
        of persimmon)
IT
     Drug delivery systems
        (tablets; stabilization of astragalin in leaf extract of
        persimmon)
TT
     50-99-7, D-Glucose, biological studies 57-48-7,
     Fructose, biological studies 59-23-4, Galactose, biological
     studies 63-42-3, Lactose 89-78-1, Menthol
     480-10-4, Astragalin
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
IT
     50-99-7, D-Glucose, biological studies 57-48-7,
     Fructose, biological studies 59-23-4, Galactose, biological
     studies 63-42-3, Lactose 89-78-1, Menthol
     480-10-4, Astragalin
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
RN
     50-99-7 HCAPLUS
     D-Glucose (8CI, 9CI) (CA INDEX NAME)
CN
Absolute stereochemistry.
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RN 57-48-7 HCAPLUS

CN D-Fructose (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-23-4 HCAPLUS

CN D-Galactose (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 63-42-3 HCAPLUS

CN D-Glucose, $4-O-\beta-D$ -galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 89-78-1 HCAPLUS

CN Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1R,2S,5R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, $3-(\beta-D-glucopyranosyloxy)-5,7-dihydroxy-2-(<math>4$ hydroxyphenyl) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:761294 HCAPLUS

DOCUMENT NUMBER:

137:246872

TITLE:

Stabilization of astragalin in leaf extract

of persimmon

INVENTOR(S):

Fujita, Akito; Kotani, Mayumi; Miyao, Manabu

Sunstar, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002291440	A2 ·	20021008	JP 2001-98147	20010330
PRIORITY APPLN. INFO.:			JP 2001-98147	20010330

AB The flavonoid astragalin in leaf extract of persimmon is stabilized with sugar alcs. selected from lactitol, mannitol, palatinit, and maltitol. The stabilized astragalin leaf extract of persimmon is mixed with lemon, menthol, peppermint, and spearmint aroma to prepare health

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food.
ΙC
     ICM A23L001-30
     ICS A23L001-30; A23G003-00; A23L002-52; A23L002-38
     17-14 (Food and Feed Chemistry)
CC
     Section cross-reference(s): 63
ST
     astragalin persimmon leaf ext stabilization sugar alc; food
     persimmon leaf ext flavonoid astragalin stabilization; aroma
     health food persimmon astragalin leaf ext
IT
     Mentha spicata
        (aroma of; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Citrus limon
        (essence; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Drug delivery systems
        (granules; stabilization of astragalin in leaf extract of
        persimmon)
IT
     Beverages
        (health, aroma of; stabilization of astragalin in leaf extract
        of persimmon)
IT
     Candy
     Diospyros
     Health food
    Odor and Odorous substances
     Powders
     Stabilizing agents
        (stabilization of astragalin in leaf extract of persimmon)
TT
     Alditols
     Flavonoids
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
IT
     Drug delivery systems
        (tablets, chewable; stabilization of astragalin in leaf extract
        of persimmon)
TT
     Drug delivery systems
        (tablets; stabilization of astragalin in leaf extract of
        persimmon)
IT
     69-65-8, Mannitol 89-78-1, Menthol 480-10-4,
     Astragalin 585-86-4, Lactitol 585-88-6,
     Maltitol 64519-82-0, Palatinit
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
IT
     69-65-8, Mannitol 89-78-1, Menthol 480-10-4,
     Astragalin 585-86-4, Lactitol 585-88-6,
     Maltitol 64519-82-0, Palatinit
     RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (stabilization of astragalin in leaf extract of persimmon)
```

Absolute stereochemistry.

69-65-8 HCAPLUS

D-Mannitol (9CI)

RN

CN

(CA INDEX NAME)

RN 89-78-1 HCAPLUS

CN Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1R,2S,5R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 585-86-4 HCAPLUS

CN D-Glucitol, $4-O-\beta-D$ -galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN585-88-6 HCAPLUS

D-Glucitol, $4-O-\alpha-D$ -glucopyranosyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

RN64519-82-0 HCAPLUS

CND-arabino-Hexitol, $6-0-\alpha$ -D-glucopyranosyl-, (2ξ) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:516083 HCAPLUS

DOCUMENT NUMBER:

135:91906

TITLE:

Manufacture of persimmon leaf extract

INVENTOR(S):

Kotani, Mayumi; Fujita, Akito;

Matsumoto, Motonobu

PATENT ASSIGNEE(S):

Sunstar, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001190241	A2	20010717	JP 2000-3576	20000112

JP 3643928

B2 20050427

PRIORITY APPLN. INFO.:

JP 2000-3576

20000112

- AB Leaf extract of Diospyros kaki is manufactured using aqueous EtOH (EtOH content ≥30%) or H2O as a solvent. The extract shows high astragalin content and low astringency.
- IC ICM A23L001-212 ICS A23L001-30
- CC 17-14 (Food and Feed Chemistry)
- ST persimmon leaf ext astragalin; extn solvent ethanol water persimmon leaf
- IT Persimmon (Diospyros kaki)

Solvent extraction

(manufacture of persimmon leaf extract with high astragalin content and low astringency)

IT 480-10-4, Astragalin

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (manufacture of persimmon leaf extract with high astragalin content and low astringency)

IT 64-17-5, Ethanol, uses 7732-18-5, Water, uses
RL: NUU (Other use, unclassified); USES (Uses)
(solvent; manufacture of persimmon leaf extract with high astragalin content and low astringency)

IT 480-10-4, Astragalin

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (manufacture of persimmon leaf extract with high astragalin content and low astringency)

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 64-17-5, Ethanol, uses 7732-18-5, Water, uses

RL: NUU (Other use, unclassified); USES (Uses)

(solvent; manufacture of persimmon leaf extract with high astragalin content and low astringency)

RN 64-17-5 HCAPLUS

CN Ethanol (9CI) (CA INDEX NAME)

 $_{\rm H_3C^-CH_2^-OH}$

RN 7732-18-5 HCAPLUS

CN Water (8CI, 9CI) (CA INDEX NAME)

H2O

L12 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:18920 HCAPLUS

DOCUMENT NUMBER:

134:76418

TITLE:

Gray hair prevention using kaempferol-3-glucoside

INVENTOR(S):

Kotani, Mayumi; Matsumoto, Motonobu
; Fujita, Akihito; Kobayashi, Satomi

PATENT ASSIGNEE(S):

Sunstar, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATE	NT INFORMATION:					
	PATENT NO.	KIND	DATE	APPLICATION	_	DATE
	JP 2001002575	A2	20010109		735	
-	RITY APPLN. INFO.:	toa to	the use of le	JP 1999-173		
AB	This invention rela prevention of gray medication. I prom	hair. otes th	I can be for e production	mulated as a of melanins	food, cosm . A·chewab	etic, or le tablet
	contained I 5, xyli	tol 298	, aspartame	6, Mg steara	te 10, and	flavors 1 mg.
IC	ICM A61K031-70 ICS A23L001-30; A6 A23G003-30; A2		•	•	•	00;
CC	63-6 (Pharmaceutica		-,	.,		
	Section cross-refer					
ST	kaempferol glucosid		_	gray hair; cl	hewable tab	let
	astragaline gray ha	ir dark	ening			
ΙT	Hair preparations					

(creams; oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT Hair preparations

(growth stimulants; oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT Hair preparations

(lotions; oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT Chocolate

Ice cream

(oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT Melanins

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(production promotion in; oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT Drug delivery systems

(tablets, chewable; oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT 480-10-4, Kaempferol-3-glucoside

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

IT 480-10-4, Kaempferol-3-glucoside

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral or topical administration of kaempferol-3-glucoside for darkening gray hair)

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:572079 HCAPLUS

DOCUMENT NUMBER: 134:141496

TITLE: Persimmon leaf extract and astragalin

inhibit development of dermatitis and IgE elevation in

NC/Nga mice

AUTHOR(S): Kotani, Mayumi; Matsumoto, Motonobu

; Fujita, Akihito; Higa, Shinji; Wang, Way;

Suemura, Masaki; Kishimoto, Tadamitsu; Tanaka, Toshio

CORPORATE SOURCE: Research and Development Center, Sunstar

Incorporation, Osaka, 565-0871, Japan

SOURCE: Journal of Allergy and Clinical Immunology (2000),

106(1, Pt. 1), 159-166

CODEN: JACIBY; ISSN: 0091-6749

PUBLISHER: Mosby, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The authors previously found that persimmon leaf extract contains antiallergic substances that inhibit histamine release by human basophilic

cell line KU812 in response to cross-linkage of FceRI. The purpose here was to identify substances in the persimmon leaf extract that are responsible for the effect and to examine their in vivo effects on the allergic mouse model. HPLC anal. of persimmon leaf extract was done to measure its content. Inhibitory activity of persimmon leaf extract or its major constituent astragalin on the histamine release by KU812 cells was examined To investigate the effects of these substances in vivo, models of passive cutaneous anaphylaxis and atopic dermatitis mice (NC/Nga) were used. Persimmon leaf extract or astragalin inhibited histamine release from KU812 in response to cross-linkage of FCERI. Oral intake of both substances dose dependently inhibited passive cutaneous reactions. Moreover, oral administration of these substances to NC/Nga atopic dermatitis model mice led to suppression of the development of dermatitis, scratching behavior, and serum IqE elevation. Histol. analyses revealed that infiltration of inflammatory cells, especially degranulated mast cells, thickening of the epidermis, and prominent hyperkeratosis, were reduced. Immunol. studies showed that the capacity of spleen T cells to produce both IL-4 and IL-13, but not IFN- γ , was downregulated by oral intake of these substances. study thus demonstrates a novel activity of astragalin and the dramatic effect of persimmon leaf extract and astragalin on atopic dermatitis model mice.

CC 1-7 (Pharmacology)

Section cross-reference(s): 15, 17

ST persimmon leaf ext astragalin atopic dermatitis model IgE

IT Immunoglobulins

RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(E; persimmon leaf extract and **astragalin** inhibit development of dermatitis and IgE elevation in mouse model)

IT T cell (lymphocyte)

(T cell formation of both interleukin-4 and interleukin-13 but not interferon γ is downregulated by oral intake of persimmon leaf extract and astragalin)

IT Interleukin 13

Interleukin 4

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(T cell formation of both interleukin-4 and interleukin-13 but not interferon γ is downregulated by oral intake of persimmon leaf extract and ${\bf astragalin})$

IT Dermatitis

(atopic; persimmon leaf extract and astragalin inhibit development of dermatitis and IgE elevation in mouse model)

IT Allergy inhibitors

Persimmon (Diospyros)

(persimmon leaf extract and astragalin inhibit development of dermatitis and IgE elevation in mouse model)

IT Interferons

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

 $(\gamma; T cell formation of both interleukin-4 and interleukin-13 but not interferon <math>\gamma$ is downregulated by oral intake of persimmon leaf extract and astragalin)

IT 480-10-4, Astragalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(persimmon leaf extract and astragalin inhibit development of dermatitis and IgE elevation in mouse model)

IT 480-10-4, Astragalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(persimmon leaf extract and astragalin inhibit development of dermatitis and IgE elevation in mouse model)

RN 480-10-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 3-(β-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

=>

THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT